

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23645

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 1 of 3

\$400.00

\$0.40

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone Ship Via:

305-925-2600

FedEx PI collect

Bolt

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms Currency Net 30 USD

FOB

FCA - (Free Carrier)

Ship Acct:

3	nip Acct:				m b 8769	,
Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ CD Taxable Promise Date	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
35.	AN3C16A	BOLT	4/11/2014 Yes 4/11/2014	50.00 Each	80.60	\$30.06
					Line Total:	\$30.00
2 /	AN3C5A	Bolt	4/11/2014 FN Yes 4/11/2014	600.00 Each	\$0.35	\$210.06
					Line Total:	\$210.00

4/11/2014 FN Yes 4/11/2014

Note:

AN3C6A



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23645

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 2 of 3

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 **USA**

VU-BEA001

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30 USD

Currency

FOB

FCA - (Free Carrier)

AN4-11A

BOLT

4/11/2014 FN

250.00

\$0.18

\$45,00

\$400.00

Yes

4/11/2014

Each

Line Total:

Line Total:

\$45.00

AN4-14A

Bolt

4/11/2014 FN

4/11/2014

Yes

500.00

Each

\$0.22

\$110.00

Line Total:

\$110.00

AN5C12A

BOLT

4/11/2014

Yes 4/11/2014

100.00

Each

\$2.50

\$250,06

Line Total:

\$250.00

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23645

Purchase Order Date 4/4/2014 PO Print Date 4/4/2014

Page Number 3 of 3

Order From:

B/E AEROSPACE INC 88289 EXPEDITE WAY CHICAGO, IL 33172 USA

VU-BEA001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

305-925-2600

FedEx PI collect

Buyer

Michael Gregoire

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship Acct: AN6C12A

Ship Via:

Bolt

4/11/2014 FN

125.00

\$4.00

\$500,00

Yes 4/11/2014

Each

Line Total:

\$500.00

71401-45

4/11/2014

4/11/2014

No

0.00

\$0.00

\$0,00

Procurement Quality Clauses A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS

Line Total:

\$0.00

PO Total:

\$1,545.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

Change Nbr:

Change Date:

4/4/2014

M. Lugei



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 650 LONGBEACH BLVD, STRATFORD, CT 06615

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE# QUANTITY U/M PART-NUMBER

CUST REF

LOT-NUMBER

MANUFACTURER

CCODE MPR DATE EXP DATE

61941

MAC PASTENERS

ORFT4

Jason Lewis

Vice President of Quality

Inv #HSW5SB 04/07/14

Airfasco Industries, Inc.

2655 Harrison Ave SW Canton, OH, 44706

Ph; 330-430-6190, Fax: 330-430-6199,

Packing Slip

Invoice #: 100094

Invoice Date: 1/17/2007

Time: 12:53:40 PM

Page: 1

M&M AEROSPACE HARDWARE PO BOX 025263. MIAMI, FL 33102-5263

Ph: 305-592-5155 Fax: 305-591-8357 PURCHAS

Ship To:

M&M AEROSPACE HARDWARE

10000 NW 15TH TERRACE

MIAMI, FL 33172

Cust. PO#: 0AJ635

Terms: NET 60

Ship Via: FED EX MOTOR FREShip Via Acc: 018757

Order Date: 8/10/2006

of Items: 1

of Boxes: 144

Weight: 6220

Prepared By:

Ship Log #: 1

Ship Order:

Customer #: 12726

Sales Order: 81923

Cust VAT #:

Ship Date: 1/17/2007

Buyer: JOE GRAY

VAT #: FOB:

AWB:

Shipment:

tem	Part Number/Description	Shipped	BackOrd	CD	Unit Price	NOM	Total Amt
2	AN4-11A BOLT, AN Loc/Whse: AFC	150000	0	NE		EA	<u> </u>
	Control #: 127330-1			ĺ			
	L-14041 66 BOXES						
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C OF C ENCLOSED. THANK YOU 144 BOXES 984/1381/799/975/699/1382 LBS 6 PALLETS TEST REPORT L-14041 SHIPPED WITH INVOICES 100092/93 MADE IN THE USA



2655 HARRISON AVE. SW CANTON, OH 44706 PHONE: (330)430-6190 FAX: (330)430-6199

CERTIFICATE OF CONFORMANCE

<u>M & M</u>

I hereby certify that on 01/03/07 AIRFASCO Industries provided the supplies called for by Contract/PO Number <u>0AJ635</u> in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

Quality Assurance Representative

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN4-11A	14041	150000			
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INVOICE# HSVXH0 ORDER# 906Y27 PART# AN4-11A
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Airfasco Industries, Inc.

2655 Harrison Ave SW Canton, OH 44706

Ph: 330-430-6190, Fax: 330-430-6199,

Date Printed: 12/9/2005

Time: 1:36:16 PM

of Items: 7 Page: 1

To:

M&M AEROSPACE HARDWARE PO BOX 025263 MIAMI, FL 33102-5263

USA

Ph: 305-592-5155 Fax: 305-591-8357 PURCHAS

Ship To:

M&M AEROSPACE HARDWARE 10000 NW 15TH TERRACE

MIAMI, FL 33172

Invoice Date: 12/9/2005

Sales Order: 78289

Ship Date: 12/9/2005

AN4-11A BOLT, AN

Serial #: L-11303 Loc/Whse:

Terms: NET 60 Order Date: 12/8/2005 Cust. PO#: 0B1664

FOB: Buyer; JOE GRAY

of Boxes: 107 Ship Log #: 1

Cust VAT #:

Ship Via: WATKINS

Ship Via Acc: 018757 Ship Order:

Shipment:

VAT #:

Weight: 6069

Customer #: 12726 AWB:

Part Number/Description Shipped BackOrd CD Unit Price Total Amt AN4-11A BOLT, AN 28460 0 NE Serial #: L-11019 Loc/Whse: AFC2 AN4-11A BOLT, AN 9490 0 NE Serial #: L-10189 Loc/Whse: AFC2 AN4-11A BOLT, AN 35960 NE Serial #: L-10918 Loc/Whse: AFC2 AN4-11A BOLT, AN 46130 0 NE Serial #: L-11378 Loc/Whse: AFC2 AN4-11A BOLT, AN 36790 0 NE Serial #: L-11380 Loc/Whse: AFC2

18300

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C OF C ENCLOSED. THANK YOU 107 BOXES 1073/633/829/1009/813/1035/677 LBS 7 PALLETS CHEM & PHYS L-111019/L-10189/L-10918/L-11378/L-11380/L-11303/L-11379 SHIPPED WITH INVOICES 92746/48

AFC2

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2655 HARRISON AVE. SW CANTON, OH 44706 PHONE: (330)430-6190 FAX: (330)430-6199

CERTIFICATE OF CONFORMANCE

M&M

I Hereby Certify that on 12/09/05 Airfasco Industries provided the supplies called for by Contract/ PO Number <u>0B1664</u> in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

Quality Assurance Representative

PART NUMBER	LOT NUMBER	QUANTITY	PART NUMBER	LOT NUMBER	QUANTITY
AN4-11A	11019	28460			
				· · · · · · · · · · · · · · · · · · ·	-



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 650 LONGBEACH BLVD, STRATFORD, CT 06615

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

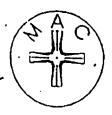
FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE#	QUANTITY U/M PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE MFR DATE	EXP DATE
4	232 BA AN4-11A					
	QTY: 93		14917	MAC FASTENERS	ORFT4	•
	QTY: 52		14041	AIRFASCO INDUSTRIES	32958	
	QTY: 87		11019	AIRFASCO INDUSTRIES	3Z958	
	•					

Jason Lewis

Vice President of Quality



MAC FASTENERS, INC. 1110 E. ENTERPRISE OTTAWA, KS 66067

CERTIFICATE OF CONFORMANCE

CUSTOMER		P. O. NUMBER
M & M Aeros	Pace	OR2519
PART NUMBER AN4-11A	Rev.1	LOT NUMBER 14917
QUANTITY	MATERIAL HEAT NUMBER	DATE.
275,000	2Y924	12-21-01

WE HEREBY CERTIFY THAT THE PARTS FURNISHED AGAINST THE ABOVE REFERENCED PURCHASE ORDER WERE PROCESSED IN CONFORMANCE WITH ALL APPLICABLE DRAWINGS AND SPECIFICATIONS. OBJECTIVE EVIDENCE OF COMPLIANCE ARE ON FILE SUBJECT TO EXAMINATION UPON REQUEST.

mut Markuth

OUALITY ASSURANCE Robert MacDonald, President

12-21-01

DATE



MAC FASTENERS, INC. 1110 E. ENTERPRISE OTTAWA, KS 66067

CERTIFICATE OF CONFORMANCE

CUSTOMER		P. O. NUMBER
M & M Aeros	pace	OR2519
AN4-11A	Rev.1	LOT NUMBER 14917
OUANTITY	MATERIAL HEAT NUMBER	DATE'
275,000	24924	12-21-01

WE HEREBY CERTIFY THAT THE PARTS FURNISHED AGAINST THE ABOVE REFERENCED PURCHASE ORDER WERE PROCESSED IN CONFORMANCE WITH ALL APPLICABLE DRAWINGS AND SPECIFICATIONS. OBJECTIVE EVIDENCE OF COMPLIANCE ARE ON FILE SUBJECT TO EXAMINATION UPON REQUEST.

2008 C 003 03 - SHUISHY 1000 PC5.

B/E 122 INSP 7/49/10

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sules Barbull

Robert MacDonald, President

12-21-01

DATE



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MAC FASTENERS, INC. Laboratory Division 1110 Enterprise Street **OTTAWA, KS 66067**

Magnetic Particle Inspection

Customer M & M Aerospace Hardware	P. O. Number OR2519	Quantity 275,000
Part Number AN4-11A	Job/Lot Number 14917	Material 4149
Magnetic Particle Specification ASTM E 1444	100% ins	ion Requirements pection per Purchase Order
Quantity Inspected 100%	inspection	1 Results 100% pass 0 fail

The fasteners referenced in this report have been processed in accordance with the above referenced specification. Evidence of compliance is on file subject to examination upon request.

> Quality Assurance Representative Mac Fasteners, Inc. a NVLAP Certified Laboratory

NVLAP Lab Code: 200141-0

2008 - 500505

AUG 1 1 AM

Form # QA14 T, Revision 12/29/97 Approval OK

JUL 3 0 2610

MIAC FASTENERS, INC. **Laboratory Division** 1110 Enterprise Street **OTTAWA, KS 66067**

Thread Inspection

Customer M & M Aerospace Hardware	P. O. Number Qu OR2519	uantity 275,000
Part Number AN4-11A	Job/Lot Number 14917	Material 4140
Thread Specification MILS-7742	Contract Require	ements System 23 of Fed-Std-H28/20
Quantity Inspected 100%	inspection Result 100%	lits
		/B/E 122 INS

The fasteners referenced in this report have been processed in accordance with the above referenced specification. Evidence of compliance is on file subject to examination upon request.

> Quality Assurance Representative Mac Fasteners, Inc. a NVLAR Certified Laboratory

NVLAP Lab Code: 200141-0

2008-005-05

Form # QA14 T, Revision 12/29/97 Approval OK



DE TRAY Plating Works

Specialized Electro-Plating
Nickel
Copper
Decorative Chrome
Satin Chrome
Zinc
Cedmium

10406 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052
Area Code 816-252-8411

December 20, 2001

Mac Fasteners 1110 East Enterprise Street Ottawa, Kansas 66067

Subject: Certification

This is to certify that the following parts have been stress relieved for 4 hours at 375 +/- 25 before cleaning cadmium plate per QQ-P-416, Rev. V 3/1/93, Type H, Class 2. Please reference our Invoice #78491 dated 12/20/01 and your P.O.14917 for:

275,000 PCs.

P.N.AN4-11A-

James T. Pierson, Vice-President

DE TRAY PLATING WORKS

JUL 3 0 2010

Tubular • Stampings • Die Castings • Sand Castings • Complete Assemblies

Sikorsky SSQS PO Report

PO# 5500053996

PO LINE NO.	QTY	SUPPLIER CODE	PART NO	DWG R	EV P/L REV
00002	587	065774	AN4-11A	NA	
O/S Rev	FSP	EPATS Rev	FAI	GSI	Serial Letter/Number Prefix
NA	N		N	N	/
Seq No	M&P Inde	In x Date Appv Src Index Da	ndex Dates te Std Part Index 10/01/200	Date 8	

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MACFASTENERS, INC.

1110 Enterprise Street Ottawa, KS 66067 Phone: 785-242-8812 Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172 Ship B/E AEROSPACE CONSUMABLES MGMTTo: 9835 NW 14th StreetMiami, FL 33172United States

Shipment No: 55972 Shipment Date: 10/29/12

Ship Via: United Parcel Service

Order Number: 44872 Order Date: 03/28/12 Customer Code: BE AEROSPACE Phone: (305) 925-2600

PO Number: 0FXJ41

Terms: Net 30 Days

LOT #61941

		Quai	ntity				Job
<u>ltem</u>	<u>Open</u>	Shipped	Back Ord	Canceled Unit	<u>Description</u>	Revision	<u>Number</u>
1	50.000	60,000	0	M	AN4-11A Bolt, machine Aircraft	2	61941

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER: B/E AEROSPACE

PO: 0FXJ41

PART NUMBER: AN4-11A

REV: 2

LOT NUMBER: 61941

MANUFACTURED QUANTITY: 60,000

MILL HEAT NUMBER: 8190916

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 10/29/12

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company- SAI GLOBAL - 0058029



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE# QUANTITY U/M PART-NUMBER CUST REF# LOT-NUMBER MANUFACTURER CCODE MFR DATE EXP DATE
3 1000 EA AN3C6A 55507 MAC FASTENERS ORFT4

Jacon I ewig

Vice President of Quality

MACFASTENERS, INC.

1110 Enterprise Street Ottawa, KS 66067 Phone: 785-242-8812 Fax: 785-242-4616

Packing List

BILL B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172

Ship B/E AEROSPACE CONSUMABLES MGMT To: 9835 NW 14th Street Miami, FL 33172 **United States**

Shipment No: 59447

Shipment Date: 06/27/13

Ship Via: United Parcel Service

Order Number: 45738

Order Date: 07/18/12

Customer Code: BE AEROSPACE

Phone: (305) 925-2600

PO Number: 0JRF09

Terms: Net 30 Days

LOT #55507

		Qua	ntity				Job
Item	Open	Shipped	Back Ord	Canceled	<u>Unit</u>	<u>Description</u>	<u>Number</u>
2	33,000	30,000	3,000		M	AN3C6A Bolt, machine Aircraft	

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER: B/E AEROSPACE

PO: 0JRF09

PART NUMBER: AN3C6A

REV: 2

LOT NUMBER: 55507

MANUFACTURED QUANTITY: 30,000

MILL HEAT NUMBER: 562237

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 08/26/13

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company- SAI GLOBAL - 0058029

MAC FASTENERS, INC. 1110 EAST ENTERPRISE

CHEMICAL & PHYSICAL TEST REPORT

CUSTON						PON	UMBER		MFG Q	UANTITY	1	ATE	
	B/6	EAERC	SPACE				0JRF09		<u> </u>	30,000		06/26/13	
PART NO	JMBER	AN3C	6A	5		REV 2	LOT NO	55507		PROCURE		ес M6812	
MATERIAL	TYPE 4	31		MATE	RIAL SPE ASTN	CIFICAT 1 A493		MILL HE	AT NUN 5622:		SUPP	LIER CARPENTER	₹
.16	8I .55	Mn .65	P .016	.001	Cu	Ni 1.57	Cr 15.8	Mo	V	В	Fe	Al.	n
	Со	N	BI	Pb	Mg	Zn		Nb	Sr			Other	
				NICAL			JLTS - T		IG PE	R NAS	M1312		
ULTIMA	TE TENS	ILE STRI NDS	ENGTH		D		SHEAR STR UNDS / PSI	RENGTH		ſ	HAR	DNESS	
. — :		ļ								F	ROCKWEL	L "C" SCALE	
3,36					5,0					REQ.		26 - 32 HRC	
3,34					5,0					SAMPLE S	SIZE	5	
3,34		• į	•	11	5,0				İ		ACTUA	L RESULTS	
3,35					5,0		•				28-	30 HRC	
3,33	0	,			5,0	140	-						
				11									
				_] [,	
N. REQ.		2210			VIN. REQ.		4250	 					
		•							Г		T/ ADDIT	IONAL TESTS	
		M	ETALLUF	GICAL E	XAMINAT	TON			-				
Discontin	uities		₽.	Car	rb/Decarb		P			Magnetik	c Particle ASTM E	Inspection per 1444	
Grain Flo			থ	I	crostruct		[7]		ŀ	l lauld E	Penetrant	Inspection per	١
Grain Size	<u> </u>	<u> </u>	<u></u>		ppearanc	لــــــ	ᄀ			madered .	ASTM E	1417	
Th	read insp D-H28/20	pection - ASME I	Sy:	stem 🔲 21	Syst 2	em 🗹	System 23			R	ecess Tor	que Test	

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

Magnetic Particle Inspection per ASTM E1444	
Liquid Penetrant Inspection per ASTM E1417	, 🗅
Recess Torque Test	
· Head Marking	ਠ!

1310		
Quality /	esurance	Representative

AS9100C REGISTERED SAI GLOBAL - 0058029

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA. KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 06/26/13

PO NUMBER:

0JRF09

MANUFACTURED QUANTITY:

30,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER:

55507

MATERIAL:

TYPE 431

PART NUMBER:

AN3C6A

REVISION: 2

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

5

HARDNESS:

28-30 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company - SAI GLOBAL - 0058029



Specialized Electro-Plating and Polishing Nickel

Copper

Decorative Chrome

Satin Chrome

Cedmlum

Bright Dip Strip Copper Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052 Phone (816) 252-8411 Fax. (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

Passivate Treatment per QQ-P-35C/SAE AMS QQ-P-35/AMS 2700

CUSTOMER: Mac Fasteners

Lot#: 55507

PART NUMBER: AN3C6A

PROCUREMENT SPECIFICATION: n/a

OTHER CONTRACTURAL REQUIREMENTS:

MATERIAL: 431 **OUANTITY: 280 lbs**

INVOICE NUMBER: 170895

Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with QQ-P-35C/SAE AMS-QQ-P-35, AMS2700 and part standard.

DE TRAY PLATING WORK

NAME:

JOB TITLE: VICE-PRESIDENT

DATE: 6/24/2013

CERTIFICATE OF TESTS **CERT SERIAL# 000808404**

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

ARPENTER

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

02/20/12 CUSTOMER / BESTELLER / CLIENT

MAC FASTENERS INC

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE FUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 16, CHAPTER 47.

THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF AMALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOY. ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

& MATERIAL 18 MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND BANNA SOURCE CONTAMINATION WITHOUT THE WRITTEN COMMENT THIS DOCUMENT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, OF CAMPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEURPAGE

1110 E. ENTERPRISE OTTAWA KS 66067

BOL

CUSTONER GRIDER NO. /BESTELL-NR. /Nº DE CONHANDE	CARPENTER NO. /MERKS-NR. /Nº DE REFERENCE INTERNE	DATE/DATUM/DATE	WEIGHT/GEWICHT/POIDS
63016 LINE 6 RELEASE 2	W41541	02/20/12	397.000

HEAT NUMBER / SCHMELZE-NR. / Nº DE COULEE :

562237

PRODUCT DESCRIPTION: TYPE 431 COLD FINISH SEAM FREE ANNEALED C HDG CL K1 HVY

SPECIFICATION: ASTM-A493-09

0.187500 IN.(4.76 MM) RD WIRE SIZE

PRIMARY HEAT CHEMISTRY(WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

MN(XRF) 0.65

15.8 (XRF)

NI(XRF)

TENSILE AS SHIPPED,

KSI (MPA)

93.0(641)

MATERIAL PRODUCED ON THIS ORDER WAS MELTED AND MANUFACTURED IN THE U.S.A. MATERIAL HAS BEEN MELTED IN USA OR QUALIFYING COUNTRY TO DEARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DEARS REQUIREMENTS DEARS 252.225-7008 AND 252.225-7009. THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS.

DEANA KISSLING ADMINISTRATOR - QUALITY CARPENTER TECHNOLOGY CORPORATION

Darna M. Kissling

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE# QUANTITY U/M PART-NUMBER

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

70867

MAC PASTENERS

ORFT4

Jason Lewis

Vice President of Quality

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MACFASTENERS, INC.

1110 Enterprise Street Ottawa, KS 66067 Phone: 785-242-8812

Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172

Ţ

Ship B/E AEROSPACE CONSUMABLES MGMT
To: 9835 NW 14th Street
Miami, FL 33172
United States

Shipment No: 62795 Shipment Date: 03/13/14

Ship Via: United Parcel Service

Order Number: 49775 **Order Date:** 12/06/13

Customer Code: BE AEROSPACE
Phone: (305) 925-2600
PO Number: 0TLR82
Terms: Net 30 Days

		Qua	ntity				Job
<u>ltem</u>	<u>Open</u>	Shipped	Back Ord	Canceled	<u>Unit</u>	Description	Number
1	10.000	10,000	0		M	AN3C16A Bolt, machine Airc	raft 70867

MAC FASTENERS, INC. 1110 ENTERPRISE **OTTAWA, KANSAS 66067**

CERTIFICATE OF CONFORMANCE AND **MANUFACTURER'S AFFIDAVIT**

CUSTOMER: B/E AEROSPACE

PO: 0TLR82

PART NUMBER: AN3C16A

REV: 2

LOT NUMBER: 70867

MANUFACTURED QUANTITY: 10,000

MILL HEAT NUMBER: 568597

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS within the United States, and were processed in accordance with all applicable drawings and specifications. Objective evidence of compliance is on file, subject to examination upon request.

Mac Fasteners is an AS9100C Regestered Company- SAI GLOBAL - 0058029 Mac Fasteners is a DISC QSLM approved Manufacturer - CAGE Code 0RFT4 Mac Fasteners is an Airbus approved Supplier - 203399

DATE: 03/13/14

QUALITY ASSURANCE REPRESENTATIVE

MAC FASTENERS, INC. 1110 EAST ENTERPRISE OTTAWA. KS 66067

CHEMICAL & PHYSICAL TEST REPORT

CUSTOME	ER					PO N	UMBER		MFG	QUANTITY	C	ATE		
	В	E AERO	SPACE				0TLR82			10,000		03/13	3/14	
PART NU	MBER	·				REV	LOT NO			PROCUR	EMENT SP			
		AN3C	16A			2		70867			NASN	/16812	·	
MATERIAL				MATER	IAL SPE	CIFICATI	ON	MILL HE	AT NL	MBER	SUPP	LIER		
Т	YPE 4	1 31			ASTN	/I A493		1	568	597		CARPENTER		
С	Si	Mn	Р	S	Cu	Ni	Cr	Мо	V	B Fe Al Ti				
.17	.48	.65	.019	.001		1.58	15.9					041		
	Co	N	Bi	Pb	Mg	Zn		Nb	'	Sn		Other		
				<u> </u>	L	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>		
		M	ECHAI	NICAL	TEST	RESU	LTS - 1	ESTIN	G P	ER NAS	M1312			
ULTIMAT			ENGTH	7 [D		HEAR ST	RENGTH						
	POU	NDS				<u> </u>	INDS / PSI		\dashv		HAR	DNESS		
2.540					4,8	00					ROCKWEL	L "C" SC	ALE	
3,510					•					REQ.		26 - 32 HF	RC	
3,480		,			4,7					SAMPLE	SIZE	5		
3,510					4,8	00					ACTUAL	RESULT	s	
3,500					4,8	00					26 -	28 HRC	;	•
3,490				1	4,7	80								
				1										
				11				•	ı					
									1.					
										N	DT/ ADDITI	ONAL TE	STS	
N. REQ.		2,210		М	IN. REQ.		4,250			<u> </u>				
·										Magnet	ic Particle I		n per	
											70.111.0			
		М	ETALLUR	GICAL EX	AMINATI	ON				Liquid	Penetrant I ASTM E	nspectior 1417	per	
Discontinui	ities		Image: section of the	Cart	/Decarb		V			D-	ess Torque	Toe4		
Grain Flow			v	Mic	Microstructure 🔽					Ket	ess rorque	7 1621		
Grain Size				Ann	pearance	<u></u>	(Z)	- 1	. :	<u>.</u>	Head Mark	dna		$\overline{\mathbf{v}}$

System

23

TEST CERTIFICATION

System ☑

22

System

21

Thread Inspection FED-STD-H28/20 - ASME B1.3

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATION

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC. Quality Assurance Representative

Magnetic Permeability

ASTM A342 less than 2.0

AS9100C REGISTERED SAI GLOBAL - 0058029

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 03/13/14

PO NUMBER: 0TLR82

MANUFACTURED QUANTITY: 10,000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER:

70867

MATERIAL:

TYPE 431

PART NUMBER:

AN3C16A

REVISION: 2

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

5

HARDNESS:

26 - 28 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat-Treat-Contractor in accordance with all applicable drawings and specifications. Heat Treatment has been verified in accordance with procurement specification and part drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company - SAI GLOBAL - 0058029

DE TRAY Plating Works

Specialized Electro-Plating and Polishing

Nickel

Copper

Decorative Chrome

Satin Chrome Zinc

Cadmium

Passivate Bright Dip Strip Copper Descale

10405 EAST ELEVENTH STREET • INDEPENDENCE, MISSOURI 64052 Phone (816) 252-8411 Fax (816) 252-8527 • E-mail: DeTrayPlating@Aol.com

Passivate Treatment per QQ-P-35C/SAE AMS QQ-P-35/ASTM-A380

CUSTOMER: Mac Fasteners

Lot#: 70867

PART NUMBER: AN3C16A

PROCUREMENT SPECIFICATION: n/a

OTHER CONTRACTURAL REQUIREMENTS:

MATERIAL: 431 OUANTITY: 175 lbs

INVOICE NUMBER: 177613

Certification Statement:

We certify that the above referenced lot was processed, tested, and inspected in accordance with QQ-P-35C/SAE AMS-QQ-P-35, AMS2700 and part standard.

DE TRAY PLATING WORKS

NAME:

JOB TITLE: VICE-PRESIDENT

DATE: 3/11/2014

CERTIFICATE OF TESTS **CERT SERIAL# 000879077**

ABNAHMEPRUEFZEUGNIS

CERTIFICAT DE CONTROLE

Carpenter Technology Corporation 101 West Bern Street, Reading, Pa. 19601 Tel: (610) 208-2000 (800) 338-4592

06/10/13 CUSTOMER / BESTELLER / CLIENT

MAC FASTENERS INC

THE RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAM, TITLE 18. CHAPTER 47.

THE VALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF ANALYSES AND TESTS MADE ON SAMPLES COLLECTED FROM THE TOTAL LOY, ORIGINAL DATA RECORDS CAN BE TRACED BY REFERENCE TO THE CARPENTER ORDER NUMBER.

MATERIAL IS MANUFACTURED FREE FROM MERCURY, RADIUM, ALPHA AND GAMMA SOURCE CONTAMINATION.
 THIS DOCUMENT SHALL NOT BE REPRODUCED. EXCEPT IN FULL, WITHOUT THE WRITTEN COMSENT OF CARPENTER TECHNOLOGY CORPORATION.

SELLER / VERKÄUFER / VENDEURPAGE 1 OF

1110 E. ENTERPRISE OTTAWA KS 66067

BOL

CUSTOMER DRDER NO./BESTELL-NR./Nº DE COMMANDE	CARPENTER NO./WERKS-NR./Nº DE REFERENCE INTERNE	DATE/DATUN/DATE	WEIGHT/GEWICHT/POIDS
81050	W72447	06/10/13	2395.000

HEAT NUMBER / SCHMELZE-NR. / Nº DE COULEE :

568597

PRODUCT DESCRIPTION: TYPE 431 COLD FINISH SEAM FREE ANNEALED C HDG CL KI HVY

SPECIFICATION: ASTM-A493-09

0.187500 IN. (4.76 MM) RD WIRE SIZE

PRIMARY HEAT CHEMISTRY (WT%): (TEST METHOD IS SHOWN IN PARENTHESIS)

P (XRF) C (COM) MN (XRF) SI(XRF)

0.48

CR (XRF) S (COM) 0,001

NI (XRF) 1.58

TENSILE AS SHIPPED,

KSI (MPA)

94.5(652)

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DEARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DEARS REQUIREMENTS DEARS 252.225-7008 AND 252.225-7009.
THIS ORDER WAS MANUFACTURED IN ACCORDANCE WITH CARPENTER SPECIALTY ALLOYS OPERATIONS QUALITY PROGRAM MANUAL, REVISION 30 DATED 09/28/11.

CARPENTER'S QUALITY MANAGEMENT SYSTEM WAS REGISTERED AS OF NOVEMBER 24, 2010 TO THE REQUIREMENTS OF ISO 9001:2008 APPROVAL CERTIFICATE 10-1385R BY PERFORMANCE REVIEW INSTITUTE. THIS CERTIFICATE OF TEST IS TYPE 3.1 PREPARED IN ACCORDANCE WITH EN 10204 (DIN 50049). WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS, AS DOCUMENTED IN THIS CERTIFICATE OF TESTS. 2010 TO

TEST METHODS ARE PER THE ASTM STANDARDS ON FILE AND IN EFFECT AT TIME OF ORDER ACCEPTANCE, STANDARD PRACTICES, OR AS AGREED UPON BETWEEN CARPENTER & CUSTOMER.

GARY BROWN
MANAGER - SPECIFICATIONS/CERTIFICATIONS
CARPENTER TECHNOLOGY CORPORATION

Gay Bours

This certification is made to the customer printed on this fown. Carpentar softher makes, nor assumés responsibility for, say representation or carrification to other partial.

De verification is made to the customer printed on this fown. Carpentar under partial that the control of the cont



BE Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE# QUANTITY U/M PART-NUMBER

125 EA AN6C12A

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

46409

3V FASTENERS

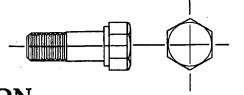
1ER65

Jason Lewis

Vice President of Quality

Inv # 04/07/14





TEST CERTIFICATION

Pager wal 43956 Cert Date: 06/02/09 (LOT # 46409 (STEEN OR) Corto#255 $\langle \hat{\mathcal{C}}_{ij}^{(k)} \rangle = \langle \hat{\mathcal{C}}_{ij}^{(k)} | \hat{\mathcal{C}}_{ij}^{(k)} \rangle + \langle \hat{\mathcal{C}}_{ij}^{(k)} | \hat{\mathcal{C}}_{ij}^{(k)} \rangle + \langle machine Carry Charles Land Co. American Baseline estimated to the P.O. #: 0902504 THE WASTERSONS 3360 - - - 1 (5) (6) (6) ∞yCusta# am# Region Control of the **製物性** Teach Spect collection (Edition SPECIAL FOREST, ESS. Magniphaga asalak P.O. Qty: HONEYWELL CONSUMABLES Customer : -2500 AND BUILDING THE SAMEREMENT OF THE STATE OF un bering. SOLUTIONS MANUFAC GREEK THE. S-00033689 Ship #: Ship To : ROANOKE, TX. THE BY HASTECHERS STATE OF THE PROPERTY. Ship Qty: 2300 But Frederick by the MFG. Part #: NASM6C12A REV.1 MANUSTRATIONS CLASS Part #: AN6C12A AND AND THE PARTY OF THE PARTY THE THE FREE PARTY SERVED S AN ELEGISTENISM THE REPORT OF THE PROPERTY OF THE DISTRIBUTE OF **Heat*#: 419432********** Material Spec: MIL-S-18732D Mill, Vendor: VALBRUNA/CENTRAL WIRE Type: 431 Procure Spec: NASM6812 REV. 2 Section Red Rev. 2 Assessment Code: 11472 FREE BY EASTERSHES NO. Hardness per NASM1312-6, ASTM E 18 of E 384

Minimum Requirement: 26-32 HRC TO BY FASTEWESS seasalescoulded, bid SEASOTALINANI, INC. THE HATTERES 26.00 CARDINERS AND CARDINERS AND PARTY 2780 26.0 THE SECTION SE AMATOMACTORING TOL THE DE PARTITIONS Metallurgical Tests State make Grain Size: un N/A 福祉 老為何等的 Decarb: NONE MUNICIPALITY BUSINESS INC. 🦥 - Hardness 🏎 N/A TO IN PASSIBLE THE ANY PERSONAL WAY THE SE EMPTERSION FIRE BUT FARSING MARK পুনুষ্ঠ ক্ষেপ্ত কলক কলে প্ৰভাৱন । পুনুষ্ঠ কলে কলক বাদকক । NUMBER OF THE PROPERTY. Metallurgical, Special Process and Subcontracted Test Information THREADS INSPECTED PER MIL-S-8879C N.3, AS8879D OR MIL-S-7742D A. 1 MACRO AND MICROSTRUCTURE SATISFACTORY 5 PCS HEAT TREAT PER AMS2759/5D BY CONTINENTAL #89170 PASSIVATE PER AMS2700C MET. 1 TY2 BY ACTIVE #86912 THE MANUFACTURES, INC. AND MACROSING BUCK SAMPLE FPI PER ASTM E 1417 05 BY ACTIVE #89734

OFARS 252.225-7014 ALT 1 ONLY AS IT APPLIES PER P.O. THE PARTEMENT MANUFACTURING, INC. OF BU PANTENESS THE HE PARTED AND SERVICE 音響 海州 野木田田岡南野香 中部 州 100年 7月1日 (1801 MANUFACTURISE, PAGE Settle College College Report Professional Tensile per NASM1312-8 [LINSEN THE THE THE THE THE 🚌 🗤 Minimum Requirement: 10100, LBS MTR PASTERS DE MATCHINA YORK COOK president to At the deci-THO THOU THO MANUFACTURE THO 13400 13500 Load: 13200 1350 Failure: THD THD THO THIS TEST CERTIFICATION SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF 3-V FASTENERS CO., INC. TESTING LABORATORY. THIS CERTIFICATION SHALL NOT BELUSED BY THE CUSTOMER TO GLAIM PRODUCT ENDORSEMENT BY ANY AGENCY OF THE U.S. GOVERNMENT. 3-Y FASTENERS CERTIFIES THAT THE PRODUCT SHIPPED ON ABOVE PURCHASE ORDER WERE MANUFACTURED, INSPECTED AND TESTED IN COMPLIANCE WITH ALL APPLICABLE PRINTS AND SPECIFICATIONS. ALL SUPPORTING DOCUMENTATION IS ON FILE AT 3-V. REGISTERED ISO 9001:2000 PJR C01-1020 AND AS9100 CAGE CODE LER65

BAE APPROVAL BAE/AG/30148/CAL / AIRBUS APPROVAL 30085.

Fig. Rev. Experiences.

Sear CYACIDODO NO BRICA

QUALITY ASSURANCE LAB SUPERVISOR

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PRESENTATION OF THE PROPERTY O

AND CONTRACTOR

PROPERTY OF THE STATE OF THE ST

AND CONTRACTOR

Mary Merchanist (2008)

DANIEL E. HENSON SALE DAY A WELLCHELLE THE MANGER HANGERS

PRINCIPALITY OF C.

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NANC CACYCROSIG, 1965

3V FASTENERS CO., INC.		FINAL I	SPECTION REPORT			P	G 1 OF 2	
PART NUMBER		REV.	LOT #	LO'	T SIZE		SAMPLE SIZE	
AN6C12A		1	46409	23	64	125/13		
DESC: HEX HD EXT.		PRINT N	IUMBER		SAMPLING	PLA	N	
3/8-24 X 1.328		NASM3 T	HRU NASM20		ANSI Z1.	4 GL	II, S-3	
PRINT CHARACTERISTIC	PRIN	T REQ.	ACTUAL	ACC.	REJ.	GAG	e equipment	
HEAD MARKING		4090	- Logo	/		VIS	UAL/10X	
GRIP LENGTH 7015	.703	673	.690686	/		CAL	IPER/OPT.COMP.	
LENGTH031			1.331 - 1.322			CAI	IPER	
THREAD PITCH DIA.		93450	.34653461	/		TRI	-ROLL	
THREAD FUN. DIA.	.347	93450	.3474 - ,3463	V		TRI	-ROLL/RING GAGE	
THREAD MAJOR DIA.	.375	03678	.3737-,3725	/		MIC	ROMETER	
THREAD ROOT RADIUS		N/A	N/A			OPT	ICAL COMPARATOR	
THREAD MINOR DIA.		N/A	N/A			TRI	-ROLL/OPT.COMP.	
GRIP DIAMETER	.374	371	.374-,373	1		MIC	ROMETER/OPT COMP	
WRENCH FLATS	.565	553	.558 ~ ,555	$\sqrt{}$		CAI	IPER	
BEARING SURFACE DIA	.553	523	.542541			OPT	CICAL COMPARATOR	
BEARING SURF. HGT.	.026	006	.013009	V	,	OPT	ICAL COMPARATOR	
RADIUS UNDER HEAD	.015	005	.014012	V		OPI	CICAL COMPARATOR	
HEAD HEIGHT	.235	203	.223216	/		CAI	LIPER/MICROMETER	
DIMPLE/RECESS DEPTH		N/A	N/A			HEI	GHT STAND	
DIMPLE/RECESS WIDTH		N/A	N/A			CAI	.iper/pin gage	
WRENCH POINT DIA.		N/A	NA			CAI	LIPER	
FIN THD, B/S, RAD, GRIP	32/R	A MAX.	< 32/Ra	/		COM	PARATOR GAGE/10X	
FIN. ALL OTHERS	125/	RA MAX.	< 125/Ra	V		COM	PARATOR GAGE/10X	
BURRS/SHARP EDGES	NONE	ALLOWED	NONE	V		VIS	SUAL/10X	
BEARING SURF. SQ.	2 DE	G. MAX.	< 2.	1	_	OPT	CICAL COMPARATOR	
SHANK STRAIGHTNESS *	.002	:5	4.0025			CON	ICE.GAGE/SUR.PLT	
INSP. PERFORMED & ACCEPTED BY:		cm. Au	(NSP)	DATE	: 5-26	0	9	
REPORT PREPARED BY: D	AN HE		03	NEW DATE	:December	8,	2004 38754	

FORM 11-1, REV 5 03/17/98

NOTES:
1. * PER INCH OF LENGTH





3V FASTENERS CO., INC.		FINAL IN	SPECTION REPOR	T		PG	2 OF 2		
PART NUMBER		REV.	LOT #	LO'	OT SIZE SAMPLE SIZE				
AN6C12A		1	46409	23	64	125/13			
DESC: HEX HD EXT.		PRINT NU	MBER		SAMPLING PLAN				
3/8-24 X 1.328		NASM3 TH	IRU NASM20		ANSI Z1.	4 GL	II, S-3		
PRINT CHARACTERISTIC	PRIN	T REQ.	ACTUAL	ACC.	REJ.	GAG	E EQUIPMENT		
LEAD ANGLE LENGTH	.063	031	.043 036	V,		├──	ICAL COMPARATOR		
CHAMFER TOP OF HEAD	35-2	5 DEG.	30° - 29°			OPT	ICAL COMPARATOR		
CONCENTRICITY:					/				
SHANK TO WRENCH FLATS	.016		<.016	/		CON	CENTRICITY GAGE		
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INSP. PERFORMED &		P 52. 1	(1 x 1) 3V	DATE	: 5-20	6-09	,		
ACCEPTED BY:		Cm.	INSP 03	NEW					
REPORT PREPARED BY: I	AN HE	NSON	00/	DATE	:December	8,	2004 38/34		

FORM 11-2, REV 5 03/17/98



PERTH, ON ERIN, ON DUMAS, AR LANCASTER, SC 613-267-3752 FAX 613-267-5617 519-833-9632 FAX 519-633-2213 870-382-2960 FAX 670-382-6968 803-283-3353 FAX 803-283-6303



UNION, IL HOUSTON, TX PERRIS, CA 615-923-2131 FAX 615-923-2126 713-466-1000 FAX 713-466-7425 961-657-2105 FAX 951-643-6061

11472

THE LEADING MANUFACTURER OF STAINLESS STEEL, NICKEL AND COPPER ALLOY WIRE PRODUCTS EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL SRIES@oentratwire.com

PERRIS SERVICE CENTER 2500 "A" STREET TEL: 909-867-2105

PERRIS, CA 92570-9361 FAX: 909-943-6061 3V LAB 06

CERTIFICATE OF CONFORMANCE

3V FASTENERS 320 REED CIRCLE CORONA,

USA

CA 92879-1349

SHIP TO

3V FASTENERS 320 REED CIRCLE CORONA,

CA 92879-1349

USA

CUSTOMER'S PO NO. TYPE OF CERT CUSTOMER ORDER NO. WORK ORDER DATE SHIPPED 14687 CUSTOMER 129433 1096466 4 4064672 6/25/07 6PECIFICATIONS:

AMS 5628F, AMS-S-18732, MIL-S-18732

* DFAR 252, 225, 7014 ALT I COMPLIANT *

	ITEM DESCRIPTION		
DESCR	IPTION	SPEC. CLASS	HEAT
Cold Heading 431 SKIN PASSED Seam Free	Melt mill VALBRUNA		419432
.3715 Coils Std. Copper/Techcoat	Country of origin ITALY	QTY SHIP	055

		il din	MERITANISE	SIS .		
C .14	MN . 56	81 .36	P . 024	\$.001	CR 15.58	NI 1.58
MÓ . 07	, cu .12	N .025	<u> </u>			

		4	jęcejanjeni	e g loppende	S .	
AS SHIPPED PE	OPERTIES:					
TENSILE 95.000 KSI						
AFTER HEAT T	REAT PROPERTIES	: * SEE	BELOW			
TENSILE 213.000 KSI	YIELD 176.000 KSI	ELONGATION 14.000 % (4D)	R/A 50.000		:	INSP

MICROSTRUCTURE: BANDED & BLOCKY PERRITE, BANDED & BLOCKY AUSTENITE-ACCEPTABLE * 1875 F +/-25 F 30 MN, QUENCHED IN OIL AT 125 F +/-25 F, COOLED TO ROOM TEMPERATURE IN WATER, SOAKED IN LIQUID AT -100 F +/-20 F NOT LESS THAN 2 HOURS, TEMPERED IN AIR AT 550 F +/-25 F FOR 2 HRS, AND RETEMPERED IN AIR AT 550 F +/-25 F FOR 2 HOURS. RON MATUEWEZSKI, QUALITY CONTROL SUPERVISOR

The material se shipped is free from marcury contamination. I cartify the chemical analysis and physical and mechanical test results reported above are correct se contained in the records of the company.

Very truly yours,



05/07/2009 THU 12:12 [JOB NO. 6823]

Ø1002

Acciaierie Valbruna s.p.A.





CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEJGÑIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204, 3.1

361CO VICENZA (Italia) - Viale della scienza, 25 z.i. Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Bestever/Purchage/Client VALBRUNA STAINLESS INC. 2400 TAYLOR STREET WEST USA-FORT WAYNE, IN 46801-USA

Produltors: STABILIMENTO DI BOLZANO

Oggetto Prove: Descaled Annealed Hotrolled

Avviso di Spedizione: D-8Z07002178 Lideranzanja Pocising auto.L.

Ordine nr: 19623 CENTRAL/TECH.PO

Tipo di Elaborazione: E+AOD

Certificato nr: MEST470215/2007/

Conforma ordine nr: EV06000456 Werks/Our Order/Rel nr.

Marchio di Fabbrica: Zeichen des Listernwerkes Trade mark Sigle de füsine, produktice

Punzone del Collaudatore: Stempol des Werkscachverstäneigen Inspector's stemp/Polingon de l'essayeur



Specifiche: Anforderungen / Requirements / Exigences D.3.PRS.079.S 2005 431 A

ASTM A370 2005.

Qualitá: 431

Marca: VAL4R

Punzonatura: 431

	Oggetto Gegenetand aduct description	Dimensioni - In Abmassungen Dimension Olimension	Tolleranza Tolleranz, Allawenze Tplerenze	Lunghezza - in tenge tengen Languezz	Colata Schmolze Heat Coviše	Pezzi Shekanhi Placas Placas	PBSO - LB Grwich Walghi Polds	Lallo ar. Lasar. Latar. Latar.
Nr. de poste De	Round	0,4724	484-05A	1	419432		6.792	634601750

Sono state soddislatte lutte le condizioni richieste Die gestellan Anlarderungen and R. Ariege artibit The material has been hurdshed in accordance with the requirements Le material is distrumié conforme aux subjences

Controllo antimescolanza: OK Verwechslungprütung: spectralens Antimizing testing performed: OK

Controllo visivo e dimensionale; soddisla le esigenze: Basichtigung und Ausmassung; ohne Beanstandung Visual Inspection and dimensional checks:satisfactory Contrôle visual at dimensional satisfactory

TEST	Provette/Protostab Speciment/Production Langular Specim Bresho Claim, Dicta Victor Rism Teleformen Langular dam apolit TIMM	۰F	Posts. Seggio Productor (contact (astronomia)	Snervamento Strict prote Wall Street Limite destroys Rp 0,2% k.s.j.	Snervamenio Swedments Ned Sees Linds d'autus	Resistenza Zoglostyloh Teople blergin Reduures sembon Rm k.s.l.	Ailunga Buddh Bergu Margu	Anumg Man	Elesci Recica	zione Minos onders RA %	Resilie Rebects Impact V Dyster	Artel Artel		DUTOZZA Harea Hareas Dumas HB	
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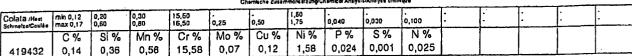
TEST C: hardened from 1024C/oil and tempered from 635/air, according to AMS 5628F.

Grain size for ASTM E112

FERRITE DELTA %

:0

Analisi chimica



Banded Ferrite and Austenlite conform to the AMS 5628F.

Material is DFARS Compliant

ll collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine M.Lestanfectou Mushluo

Pagina - 1 di 2



1/ Lectar. 3 PRS, 079. 5

Bolzano, 20/03/07 BBLCOB (Med. MCER)

Acciaierie Valbruna s.p.A.



CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEJIGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204, 3.1 11472

36100 VICENZA (Italia) - Viale della scienza, 25 z.l. Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Clients / Dectalant Purchase Michael
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
USA-FORT WAYNE, IN 46801-USA

Produltore: STABILIMENTO DI BOLZANO

Oggetto Prove: Descaled Annealed Hotrolled Prologogeround/New Inspected/Philosoge

Awiso di Spedizione: D-BZ07002178

Ording nr: 19623 CENTRAUTECH.PO

Tipo di Elaborazione: E+AOD
Essehmatzungssn/Meting processi/Mode d' olaboration

Certificato nr: MEST470215/2007/

Conferma ordine nr: EV06000456

Marchio di Fabbrica: Zelchen des Lielenwerkes Trade maik Sigle de l'usine produtica

Punzone del Coltaudatore: Stempel des Werkssochverständigen Inspector's stemp/Poinçon de l'assayeur



Melited and manufactured in Italy No welding or weld repair Material free from Mercury or radio-activity contamination.

The Quality Management System is Certifiled acc. Pressure Equipment Directive [97/23/EC] Annox 1,s.4.3 by TUEV and LLOYD'S





Bolzano,20/03/07

(Mod. MCEA)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M.Lesten Portous MOHIMO

Pagina · 2 di 2



512116 89734

5,30,59

9356½ San Fernando Road, Unit B • Sun Valley, CA 91352 (818) 504-0677 • FAX (818) 504-1559

SOLD TO:

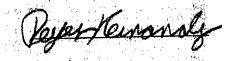
3V FASTENERS 320 REED CIRCLE CORONA , CA 92879 (951) 734-4391



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This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product; endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification were processed, inspected & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.





9356½ San Fernando Road, Unit B • Sun Valley, CA 91352 (818) 504-0677 • FAX (818) 504-1559

SOLD TO:

3V FASTENERS 320 REED CIRCLE CORONA , CA 92879 (951) 734-4391

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FLOURESCENT PENET	RANT SPECIFI	CATIONS	المستريدين ودل	LIAME.	ri i na —			in interest	torn area.			
FLOURESCENT PENET Acceptance Criteria	/ASTM-	E-141	7-05	NASH(Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected
FLOURESCENT PENET Acceptance Criteria Accepted Rejecte	HANT SPECIFICAL ACCEPTED ACCEPTED	CATIONS E-141 Rejected	7-05 Accepted	NASH(Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected
FLOURESCENT PENET Acceptance Criteria	/ASTM-	E-141	7-05 Accepted			Rejected	Accepted	Rejected	Accepted	Rejected	Accepted	Rejected

This test certification shall not be reproduced except in full. This certification shall not be used by the customer to claim product endorsement by any agency of the U.S. government. Active Magnetic Inspection certifies that the product shipped on the above certification were processed, inspected & tested in compliance with all applicable prints & specifications. All supporting documentation is on file at Active Magnetic Inspection.

ORIGINAL CERTIFICATION/TEST REPORT

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10643 S. NORWALK BL. SANTA FE SPRINGS CALIFORNIA 90670 562-944-8808 800-622-6624 FAX 562-944-1499

CERTIFICATION

4-30-01

CERTIFICATION NUMBER 531333

3 V FASTENERS 320 REED CIRCLE CORONA, CA 92879-1349



V FASTENERS 320 REED CIRCLE CORONA, CA 92879-1349

CUSTOMER SHIPPER DATE RECEIVED CUSTOMER P.O. NUMBER CUSTOMER NUMBER 04/08/09 0450045 89170 PART NUMBER / DESCRIPTION QUANTITY WEIGHT 3 PANS AN6C12A RTR# 46409 ·······127 - 2358 H/T, 125-145 KSI PER P.O.

CORE HARDNESS HARDNESS MAX-CROSS SECTION CASE DEPTH MATERIAL 27-32 HRC

431 S/S AMS 2759/5 D

PROCESS	SPEC TEMP	SPEC TIME	EQUIP.	ACT TEMP	TIME IN	TIME AT-HEAT	TIME OUT	ATMOS DEWPT	Q-MED & TEMP	DATE
DACY.			. PACE		. Ø8					04/13
RALA	4.4.0-	.05	WACE	J. 140).	10:00	10:00	10:05	AIR	A/C	04/13
PRECLEAN	er i de ⊥⁄av iole.		WIDE	1 170	. 08	Y				04/13
CDADCHOP!	and the state of t	2.075	ATMC)C	. 02	Ÿ				04/13
DEI V.F	1.400	. 20	VS	1.400	18:34	20:45	21:15	VAC	RAISE	04/13
PREHEAT	1400 m.s.	2.00	······································	1075	21:15	22:10	00:10	VAC	OIL	04/13
AUSTENTI	E 18/3	2.00	751	-100	03:00	03:10	05:10	NIT	A!/Wasa	04/14
BURZEKU	96	2:00	D 1 O	200	07:30	07:40	09:40	AIR	A/C	04/14
ENAPTEMPE	R 300	2:00	PIO		. 08	v		7	ويره والأرادات	04/28
LOADCOUPL	Æ	in the same of the same	Jagor WINE		. 01	V			er .	04/28
SET V P	la de agradad partido de	er at estekt dat O-AF	A I DU	1125	05:00	7 : 05	10:10	VAC	GFC	04/28
TEMPER 15	1125	3:03	V 🗅	I I Z D	#. 410/07D1	1 TEST	ACCT:	2358	REJT:0	
TEST RESUL	.TB1 27-28	3 HRC	LITER	LAD	VO TE (A) (A) TE ! #	v				04/28
LOADCOUPL	Æ , se te fotosse fyri	garden elemen	WIKE	era in r	. 0 8	V			•	04/28
SET V P	sa marakan sa		ATML	14.05	.08	12.25	16:25	VAC	GFC	04/28
TEMPER: 15)	3:00	V.8	TTZO	10:55	V		,	-	04/29
GLASS BEA	(D igital of the solution	Body by I is war.	~~ 81 ~~	فأنشب بجيبها بالمجاد	2. 00 ···	I	**			

QTY REJT:0 QTY ACCT: 2358 HARDNESS: 27-28 HRC QTY TESTED: 8

NSPECTOR

04/29/09 JIMMY MARTINEÉ

his Process Certification covers thermal processing and/or hardness testing only. No particular mechanical properties of any material should be assumed, or are mplied, as a result of the thermal processing and/or hardness testing of this Process Certification.

***LLL FURNACES CERTIFIED TO MEET THE REQUIREMENTS OF AMS-H-6875, CURRENT REVISION. HARDNESS TESTING PERFORMED TO THE LATEST REVISION OF ASTM E 384, ASTM E 10, ASTM E 110, ASTM E 18, ASTM E 140 AND ASTM A 370.

EA 7 1 DEV C 10/10/04

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B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.♥. 15th. Ferrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO23645

LNE# QUANTITY U/M PART-NUMBER

500 BA AN4-14A

CUST REF#

LOT-NUMBER

MANUFACTURER

CCODE MFR DATE EXP DATE

MAC FASTENERS

ORFT4

Jason Lewis

Vice President of Quality

MACFASTENERS, INC.

1110 Enterprise Street Ottawa, KS 66067 Phone: 785-242-8812

Fax: 785-242-4616

Packing List

Bill B/E AEROSPACE CONSUMABLES MGMT To: 10000 NW 15TH TERRACE MIAMI, FL 33172 Ship B/E AEROSPACE CONSUMABLES MGMT
To: 9835 NW 14th Street
Miami, FL 33172
United States

Shipment No: 62095

Shipment Date: 01/23/14

Ship Via: United Parcel Service

Order Number: 48480 Order Date: 07/22/13 Customer Code: BE AEROSPACE

Phone: (305) 925-2600

PO Number: 0PZH84

Terms: Net 30 Days

LOT#68538

		Qua	ntity				Job
<u>ltem</u>	<u>Open</u>	Shipped	Back Ord	Canceled	<u>Unit</u>	<u>Description</u>	<u>Number</u>
1	100,000	110,000	0		M	AN4-14A Bolt, machine Aircraft	68538

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA, KANSAS 66067

CERTIFICATE OF CONFORMANCE AND MANUFACTURER'S AFFIDAVIT

CUSTOMER: B/E AEROSPACE

PO: 0PZH84

PART NUMBER: AN4-14A

REV: 2

LOT NUMBER: 68538

MANUFACTURED QUANTITY: 110,000

MILL HEAT NUMBER: 8193290

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

DFARS 252.225.7009 Compliant

MERCURY FREE CERTIFICATION

MacFasteners Inc. certifies that the parts referenced in the above lot number do not contain Mercury or Mercury compounds, and were manufactured in a Mercury free environment.

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in accordance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.

DATE: 01/22/14

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company- SAI GLOBAL - 0058029

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MAC FASTENERS, INC. 1110 EAST ENTERPRISE **OTTAWA, KS 66067**

CHEMICAL & PHYSICAL TEST REPORT

CUSTOMER	PO	IUMBER	MFG QUANTITY	DATE
B/E AEROSPACE	0PZH84		110,000	01/22/14
PART NUMBER		LOT NO	PROCUREMENT	SPEC
AN4-14A		68538 N		\SM6812

MATERIAL TYPE 8740			MATERIAL SPECIFICATION MIL-S-6049/AMS6322			MILL HEAT NUMBER 8193290			SUPPLIER JOHNSTOWN				
.40	.24	Mn .77	.010	s .010	.10	.52	Cr .58	Mo .26	.002	В	Fe	.023	Ťi
	Со	N .0060	Bi	Pb	Mg	Zn		Nb	Sn .005			Other	

MECHANICAL TEST RESULTS - TESTING PER NASM1312

	MECHAN
	NSILE STRENGTH DUNDS
5,770	
5,710	•
5,720	
5,730	
5,750	
	- -
MIN. REQ.	4,080

DOUBLE SHEAR STRENGTH POUNDS / PSI							
0.400							
8,180							
8,130							
8,140							
8,160							
8,190							
	÷ *						
MIN. REQ.	7,360						

H	ARDNESS	
ROCKW	ELL "C" SC	ALE
REQ.	26 - 32 H	RC
SAMPLE SIZE	5	•
ACTU	AL RESUL1	rs
28	3 - 30 HRC	
		-

METALLURGICAL EXAMINATION							
Discontinuities	뎅	Carb/Decarb	Ø				
Grain Flow	V	Microstructure	Image: section of the				
Grain Size		Apppearance	v				
Thread Inspect	tion Sy SME B1.3	stem System 2 21 22	System 23				

TEST CERTIFICATION

WE CERTIFY THAT THE PART NUMBER, LOT NUMBER, AND SAMPLES REFERENCED ABOVE HAVE BEEN TESTED IN ACCORDANCE WITH THE APPLICABLE **SPECIFICATION**

FOR THE TESTS REPORTED HEREIN. THIS CERTIFICATION SHALL NOT BE RE-PRODUCED, EXCEPT IN FULL, WITHOUT THE APPROVAL OF MAC FASTENERS, INC.

NDT/ ADDITIONAL TESTS	
Magnetic Particle Inspection per ASTM E1444	O
Liquid Penetrant Inspection per ASTM E1417	
Recess Torque Test	
Head Marking.	0
Magnetic Permeability ASTM A342 less than 2.0	

Quality Assurance Représentative

AS9100C REGISPÉRED **SAI GLOBAL - 0058029**

MAC FASTENERS, INC. 1110 ENTERPRISE OTTAWA. KANSAS 66067

HEAT TREAT CERTIFICATION

CUSTOMER: B/E AEROSPACE

DATE: 01/22/14

PO NUMBER:

0PZH84

MANUFACTURED QUANTITY:

110.000

PROCESSOR:

PAULO PRODUCTS KCMO - NADCAP ID 4679

LOT NUMBER:

68538

MATERIAL:

TYPE 8740

PART NUMBER:

AN4-14A

REVISION: 2

REQUIRED HARDNESS:

26 - 32 HRC

SAMPLE SIZE:

5

HARDNESS:

28 - 30 HRC

HEAT TREAT SPECIFICATION AS APPLICABLE: MIL-H-6875/AMS-H-6875/AMS2759/AMS5853/PS-1001

Notes:

The fasteners referenced in this report have been processed, inspected and certified by the Heat Treat Contractor in accordance with all applicable drawings and specifications. Heat Treatment-has-been-verified-in-accordance-with-procurement-specification-and-part-drawing, by metallurgical and mechanical testing as applicable. Evidence of compliance as well as certification from the Heat Treat Contractor is on file and subject to examination upon request.

QUALITY ASSURANCE REPRESENTATIVE

MacFasteners, Inc. is an AS9100C Regestered Company - SAI GLOBAL - 0058029